

WHAT IS CLAIMED IS:

1. A liquid crystal display device, comprising:
 - a first substrate having a first region and a second region, wherein the second region surrounds the first region;
 - a plurality of patterned spacers over the first substrate in the first region;
 - a plurality of supporting patterns spaced apart from each other over the first substrate in the second region;
 - a plurality of seal patterns in the second region including the plurality of supporting patterns;
 - a second substrate spaced apart from and attached to the first substrate by the seal pattern; and
 - a liquid crystal layer between the first and second substrates.
2. The device according to claim 1, further comprising a color filter layer between the first substrate and the plurality of patterned spacers, wherein the color filter layer is composed of red, green and blue sub-color filters.
3. The device according to claim 2, further comprising a plurality of compensating patterns between the first substrate and the plurality of supporting patterns.
4. The device according to claim 3, wherein the plurality of compensating patterns are formed of a same material as the color filter layer.

5. The device according to claim 2, further comprising a black matrix between sub-color filters.

6. The device according to claim 5, wherein the plurality of patterned spacers corresponds to the black matrix.

7. The device according to claim 2, further comprising a common electrode between the patterned spacers and the color filter layer.

8. The device according to claim 7, further comprising a plurality of conductive material patterns between the supporting patterns and the first substrate, wherein the plurality of conductive material patterns is formed of a same material as the common electrode.

9. The device according to claim 7, further comprising an array element layer over an inner surface of the second substrate, wherein the array element layer includes a pixel electrode.

10. The device according to claim 1, further comprising an array element layer over the second substrate, wherein the array element layer includes a pixel electrode and a common electrode.

11. The device according to claim 1, wherein the plurality of supporting patterns are formed of a same material through a same process as the plurality of patterned spacers.

12. The device according to claim 1, wherein a thickness of the liquid crystal layer is defined as a cell gap, which is determined by thicknesses of the patterned spacers and the supporting patterns.

13. The device according to claim 1, wherein the supporting patterns act as a supporter of the seal patterns.

14. The device according to claim 1, wherein the seal patterns contain no glass fibers.

15. A method of manufacturing a liquid crystal display, comprising:
forming a plurality of patterned spacers in a first region and a plurality of supporting patterns in a second region over a first substrate, wherein the second region surrounds the first region;
forming a plurality of seal patterns in the second region including the plurality of supporting patterns;
disposing the first substrate over a second substrate and attaching the first and second substrate by using the seal pattern; and
injecting a liquid crystal material between the first and second substrates.

16. The method according to claim 15, wherein a cell gap defined by a thickness of the liquid crystal layer is determined by thicknesses of the patterned spacers and the supporting patterns.

17. The method according to claim 15, further comprising a step of forming a color filter layer before forming the plurality of patterned spacers and supporting patterns, wherein the color filter layer is composed of red, green and blue sub-color filters.

18. The method according to claim 17, further comprising a step of forming a plurality of compensating patterns before forming the plurality of patterned spacers and supporting patterns, wherein the plurality of compensating patterns is spaced apart from each other.

19. The method according to claim 18, wherein forming the plurality of compensating patterns is simultaneously performed with forming the color filter layer.

20. The method according to claim 18, wherein the plurality of compensating patterns correspond to the plurality of supporting patterns.

21. The method according to claim 17, further comprising forming a black matrix before forming the color filter layer, wherein the black matrix corresponds to an interface between the sub-color filters.

22. The method according to claim 15, wherein the seal pattern is formed by one of a screen-printing method and a dispensing method.

23. The method according to claim 15, wherein the seal pattern is disposed between adjacent compensating patterns and between adjacent supporting patterns.

- 22 -

24. The method according to claim 15, wherein the seal patterns contain no glass fibers.